RET1028

Retina Weather Proof Color Camera

with SONY High Resolution CCD Sensor & On-Screen Adjustability

Retina SECURITY EQUIPMENT

INTRODUCTION

The RET1028 color camera employs the latest SONY technology optical components. This high definition stability camera provides strong anti-jamming, rich and real color. Easy to install and convenient to use. It will adapt to most CCTV systems. Please read this instruction manual carefully to ensure proper use of the product.

WARNINGS

WARNING

To prevent fire or shock hazard, do not expose the unit to prolonged contact with water.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the application.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.

CAUTION
Risk of Electrical Shock DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK DO NOT REMOVE COVER OR BACK. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION: TO PREVENT ELECTRICAL SHOCK AND RISK OF FIRE HAZARDS, DO NOT USE OTHER THAN SPECIFIED POWER SOURCE.

CAUTION
Risk of Damaging Camera

CAUTION: PLEASE NOTE THE CAMERA'S OPERATING TEMPERATURE AND ENVIRONMENT REQUIREMENTS. AVOID USING THE CAMERA AT EXTREME TEMPERATURES.

CAUTION: NEVER POSITION THE CAMERA TO FACE THE SUN OR A BRIGHT OBJECT. THIS MIGHT DAMAGE THE CCD.

CAUTION: DO NOT MOUNT THE CAMERA NEAR A HEAT SOURCE.

CAUTION: USE ONLY THE RECOMMENDED POWER SUPPLY.

CAUTION: WHEN USING THE CAMERA IN LIGHTNING CONDITIONS, BE SURE TO INSTALL A SURGE – PROTECTION DEVICE, OR DISCONNECT POWER SUPPLY PLUG AND CABLE.

CAUTION: IN ORDER TO CAPTURE HIGH QUALITY PICTURES, THE POWER SUPPLY'S CABLE AND VIDEO OUTPUT CABLE SHOULD NOT BE TOO LONG.

IN THE BOX

(1) RET1028 Weather Proof Color Camera
(1) User Manual

PRODUCT OVERVIEW

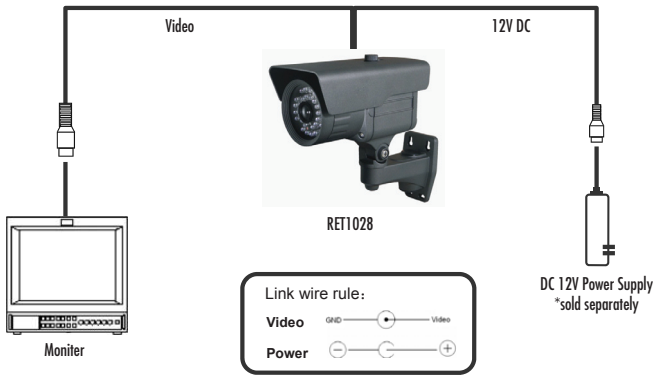
Sensor (CCD)
SONY 1/3" High Resolution CCD Sensor

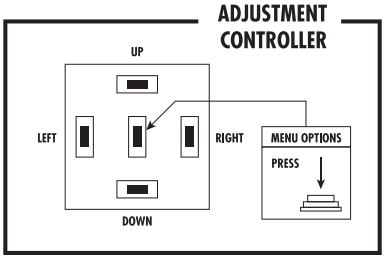
Auto Gain Control (AGC)
Built-in auto gain control (AGC) circuit. The color camera can provide high definition picture in low light conditions.

Scanning Mode
NTSC or PAL mode.

On-Screen Adjustability
The camera has a built-in OSD with an easy-to-use adjustment controller that gives you complete control over the picture.

CONNECTIONS





USER MANUAL

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SPECIFICATIONS

Model	RET1028
Pick Up Element	1/3" SONY EXview HAD CCD I
Effective Picture Elements (H X V)	NTSC: 1020(H) X 508(V) PAL: 1020(H) X 596(V)
Horizontial Resolution	700 TV Lines
Minimum Illumination	0.001 Lux 0 Lux (with IR LED ON)
S/N Ratio	52db
Scanning System	2.1 Interface
Synchronous System	Internal, Negative sync.
Auto Electronic Shutter	NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/100,000s
Gama Characteristic	0.45
IR Distance	25 Meters (with 5x30 PCS infrared LED)
Video Output	1Vpp, 75Ω
Auto Gain Control	Auto
Power/Current	DC12/350 mA
Lens	3.6mm Board lens
Dimension (mm)	200(W) x 78 (H) x 65 (D)
Weight (g)	700
Storage Temperature	-30~+60°C RH 95% MAX
Operating Temperature	-10~+45°C RH 95% MAX

ON-SCREEN SETTINGS

LENS		MANUAL
	AUTO	DC/VIDEO
		MODE: CLOSE/AUTO/OPEN SPEED: 0-255
SHUTTER/AGC	AUTO	HIGH LUMINANCE MODE: SHUT+AUTO IRIS/AUTO IRIS
		BRIGHTNESS: 0-255
		LOW LUMINANCE MODE: OFF/AGC
		BRIGHTNESS: x0.25, x0.5, x0.75, x1
	MANUAL	MODE: SHUT+AGC
		SHUTTER: 1/50,1/120,1/250,1/500,1/1000,1/2000,1/4000,1/10000
		AGC: 6,12,18,24,30,36,42,44.8
WHITE BAL	ATW	SPEED/DELAY CNT/ATW FRAME/ENVIRONMENT
		PUSH/ANTI CR/PUSH LOCK/USER1/USER2/MANUAL
BACK LIGHT		OFF/BLC/HLC
PICT ADJUST		MIRROR/BRIGHTNESS/CONTRAST/SHARPNESS/HUE/GAIN
ATR	OFF	
	ON	LUMINANCE/CONTRAST
MOTION DET	OFF	
	ON	DETECT SENSE/BLOCK DISP/MONITOR AREA/AREA SEL/TOP/BOTTOM/LEFT/RIGHT
PRIVACY	OFF	
	ON	AREA SEL/TOP/BOTTOM/LEFT/RIGHT/COLOR/TRANSP/MOSAIC
DAY/NIGHT	COLOR	
	B/W	BURST: OFF/ON
	AUTO	BURST: OFF/ON
		DELAY CNT/DAY-NIGHT/NIGHT-DAY
NR	NR	MODE: Y/C,OFF,C
CAMERA ID	OFF/ON	
SYNC	INT	
LANGUAGE		ENGLISH/CHINESS/JAPANESS/ESPANOL/PORTUGUES/PYCCKNN/FRANCAIS/DEUISCH
		CAMERA RESET/BACK/EXIT/SAVE ALL

TROUBLESHOOTING

1. **No picture after providing power.**
   Possible power supply voltage abnormality. Check for proper power supply voltage and polarity. Ensure that all the connecting cables and monitors are hooked up properly.

2. **Interference (hum bars) are moving through the picture.**
   Check the monitor and peripheral equipment used.

3. **The picture background changes color continuously.**
   The fluorescent light's electromagnetic field can cause color roll. This is a normal phenomenon. Reduce the number of fluorescent lights, or increase the distance between the camera and the fluorescent lights.

4. **The picture quality is poor or "fuzzy"**
   This is usually due to poor quality cables or poor connections. Ensure that all the connecting cables and monitors are hooked up properly, or switch to higher quality connecting cables.

LIMITED WARRANTY

This warranty remains in effect for one year from the date of purchase. Except as specified below, this warranty covers all defects in material and workmanship. The following are not covered: Damaged caused by accident, misuse, abuse, product modification or neglect, damage occurring during shipment, damage from failure to follow instructions contained in the owner's instruction booklet, damage resulting from the performance of repairs by someone not authorized by Retina Security Equipment, or any claims based on misrepresentations by the seller. This warranty does not cover incidental or consequential damages. It does not cover the cost of removing or reinstalling the unit. This warranty is void if the serial number has been removed or defaced.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state. Some states do not allow the exclusion or limitations of incidental or consequential damages or limitation on how long an implied warranty lasts so the above may not apply to you.

HOW TO OBTAIN SERVICE

Please call us at (800) 844-9555 Monday – Friday 8am – 5pm. Central Standard Time. We may direct you to an authorized dealer/technician or request that you return the product for repair. You must present the original bill of sale to establish the date of purchase.

Please do not ship your product to us for repair without prior authorization. You are responsible for transportation of your product and payment of any shipping charges. If the repairs are covered under warranty, we will pay the return shipping charges.

NOTE: *Do not attempt to disassemble the camera. Doing so may void your warranty. No user-serviceable parts inside.*

USER MANUAL